



EFW

PTO/SB/21 (04-04)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/726394
	Filing Date	December 2, 2003
	First Named Inventor	Lisa Pfefferle
	Art Unit	N/A
	Examiner Name	Not Yet Assigned
Total Number of Pages in This Submission	Attorney Docket Number	YU-P03-008

ENCLOSURES (Check all that apply)		
<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment/Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input checked="" type="checkbox"/> Other Enclosure(s) (please identify below): Return Receipt Postcard
<div>Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual name	ROPES & GRAY LLP Wolfgang E. Stutius - 40,256
Signature	
Date	August 25, 2004

I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.	
Dated: August 25, 2004	Signature: (Judith A. Herrick)



I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail, in an envelope addressed to: MS Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date shown below.

Date: August 27, 2004 Signature: Judith Hemick

(Judith Hemick)

Docket No.: YU-P03-008
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of:
Pfefferle et al.

Application No.: 10/726394

Confirmation No.: 5613

Filed: December 2, 2003

Art Unit: N/A

For: GROWTH OF NANOSTRUCTURES WITH
CONTROLLED DIAMETER

Examiner: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT (IDS)

MS Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

Copies of the references on the PTO/SB/08 are not supplied because they were previously cited by or submitted to the Office in a prior application number 10/328857, filed December 18, 2002 and relied upon in this application for an earlier filing date under 35 U.S.C. 120.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this

Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 18-1945, under Order No. YU-P03-008. A duplicate copy of this paper is enclosed.

Dated: August 25, 2004

Respectfully submitted,

By 
Wolfgang F. Stupis

Registration No.: 40,256
ROPES & GRAY LLP
One International Place
Boston, Massachusetts 02110-2624
(617) 951-7000
(617) 951-7050 (Fax)
Attorneys/Agents For Applicant



PTO/SB/08A (10-01)

Approved for use through 10/31/2002.OMB 0651-0031

U. S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Complete if Known	
				Application Number	10/726394
				Filing Date	December 2, 2003
				First Named Inventor	Lisa Pfefferle
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	3	Attorney Docket Number	YU-P01-008

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	AA	5538711	07-23-1996	Emerson et al.	
	AB	6314019B1	11-06-2001	Kuekes et al.	
	AC	6333016B1	12-25-2001	Resasco et al.	
	AD	6413487B1	07/02-2002	Resasco et al.	
	AE	6,159,742	12-12-2000	Lieber et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	† ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)				

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant

¹ Applicant's unique citation designation number (optional). ² See attached Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the application number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/726394
				Filing Date	December 2, 2003
				First Named Inventor	Lisa Pfefferle
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	2	of	3	Attorney Docket Number	YU-P01-008

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	CA	LI et al., "Large-Scale Synthesis of Aligned Carbon Nanotubes," Science 12/6/96 pp 1701-1703, USA	
	CB	MUKHOPADHYAY et al., "A Simple and Novel Way to Synthesize Aligned Nanotube Bundles at Low Temperature," pp L1257-L1259 Jpn. J. Appl. Phys. Vol 37, Japan.	
	CC	ZHANG et al., "Template Synthesis of High-Density Carbon Nanotube Arrays," pp 306-310 Journal of Crystal Growth 223 (2001)	
	CD	LAUNOIS et al., "Carbon Nanotubes Synthesised in channels of AlPO ₄ -5 Single Crystals: First X-Ray Scattering Investigations," pp 99-103 Solid State Communications, 2000	
	CE	ZHANG et al., "A Novel Method of Varying the Diameter of Carbon Nanotubes Formed on an Fe-Supported Y Zeolite Catalyst," pp 383-388, Microporous and Mesoporous Materials, 1999	
	CF	CUI et al, "Nanowire Nanosensors for Highly Sensitive and Selective Detection of Biological and Chemical Species," pp 1289-1292 Science Magazine, 8/17/01	
	CG	RAO et al., "Nanotubes," pp 78-105 Chemphyschem, 2001.	
	CH	WANG et al., "Two- and Three-Dimensional Alignment and Patterning of Carbon Nanotubes," pp 165-167, Advanced Materials, 1/16/02.	
	CI	SINNOTT et al., "Model of Carbon Nanotube Growth Through Chemical Vapor Deposition," pp 25-30 Chemical Physics Letters 315(1999)	
	CJ	SINNOTT et al., "Carbon Nanotubes: Synthesis, Properties, and Applications," Critical Reviews in Solid State and Materials Sciences 26(3):145-249 (2001)	
	CK	FONSECA et al., "Synthesis of Single- and Multi-Wall Carbon Nanotubes Over Supported Catalysts," Applied Physics A 67, 11-22(1998)	
	CL	JIANG et al., "Catalytic Growth of Carbon Nanotubes From the Internal Surface of Fe-Loading Mesoporous Molecular Sieves Materials," Materials Chemistry and Physics vol. 69, Issues 1-3, pp 246-251, 3/1/01.	
	CM	DAI, "Carbon Nanotubes: Opportunities and Challenges," Surface Science 500 (2002) pp 218-241	
	CN	ZHAO et al., "A Novel Method for Tailoring the Pore-Opening Size of MCM-41 Materials," Chem. Communications, 1999, pp 1391-1392.	
	CO	ZHAO et al., "Advances in Mesoporous Molecular Sieve MCM-41," Ind. Eng. Chem. Res. 1996, 35:2075-2090	
	CP	WU et al., "Conducting Carbon Wires in Ordered, Nanometer-Sized Channels," Science 266:1013-1015 (1994)	
	CQ	CHEUNG et al., "Diameter-Controlled Synthesis of Carbon Nanotubes," Journal of Phys. Chem. B 2002 106:2429-2433.	
	CR	LIM et al., "Gas Phase Methanol Oxidation on V-MCM-41," Applied Catalysis A: General 188 (1999) 277-286	
	CS	LIM et al., "Preparation of Highly Ordered Vanadium-Substituted MCM-41: Stability and Acidic Properties," Journal of Phys. Chem. B 2002 106:8437-8448.	
	CT	KATAURA et al., "Optical Properties of Single-Wall Carbon Nanotubes," Synthetic Metals 103 (1999) 2555-2558.	
	CU	LEE et al., "Synthesis of a New Mesoporous Carbon and its Application to Electrochemical Double-Layer Capacitors," Chem. Commun. 1999, pp 2177-2178	
	CV	RAVIKOVITCH et al., "Evaluation of Pore Structure Parameters of MCM-41 Catalyst Supports and Catalysts by Means of Nitrogen and Argon Adsorption," Journal of Phys. Chem. B 1997, 101:3671-3679.	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>				Complete if Known	
				Application Number	10/726394
				Filing Date	December 2, 2003
				First Named Inventor	Lisa Pfefferle
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	3	of	3	Attorney Docket Number	YU-P01-008

	CW	ALVAREZ et al., "Synergism of Co and Mo in the Catalytic Production of Single-Wall Carbon Nanotubes by Decomposition of CO," Carbon 39 (2001):547-558.	
	CX	Dai, H. et al. Controlled Chemical Routes to Nanotube Architectures, Physics, and Devices. J. Phys. Chem. B 103, 11246-255 (1999).	
	CY	Tolbert, S.H. et al. Magnetic Field Alignment of Ordered Silicate-Surfactant Composites and Mesoporous Silica. Science 278, 264-68 (10 Oct. 1997).	
	CZ	Zheng, G. et al. Chemical Vapor Deposition Growth of Well-Aligned Carbon Nanotube Patterns on Cubic Mesoporous Silica Films by Soft Lithography. Chem. Matter. 13, 2240-42 (2001).	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²Applicant is to place a check mark here if English language Translation is attached.

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--